

**IN THE CLAIMS:**

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 5-13, without prejudice to or disclaimer of the subject matter recited therein, in accordance with the following:

1. (PREVIOUSLY PRESENTED) A disc balancing device which balances a disc comprising:

a disc assembly having a driving source, wherein the disc is rotatably disposed at the driving source;

a displacement measurement unit measuring vibration in the rotation of the disc assembly;

a phase angle measurement unit measuring a phase angle from a reference point of the disc assembly in the rotation of the disc assembly;

an operation/control unit calculating an eccentric mass and an eccentric position of the disc assembly, by using the biased vibration measured in the displacement measurement unit and the phase angle measured in the phase angle measurement unit; and

a laser cutter moving to track and to laser-cut a side portion of the disc corresponding to the eccentric position, while the disc is not rotating, according to the eccentric mass information from the operation/control unit, wherein the eccentric mass of the disc assembly is balanced to reduce vibration in the rotation thereof.

2. (ORIGINAL) The device according to claim 1, further comprising a dust inhaler inhaling dust generated when the side portion of the disc is cut by the laser cutter.

3. (PREVIOUSLY PRESENTED) The device according to claim 2, further comprising a robot unit, wherein the dust inhaler and the laser cutter are moved by the robot unit controlled by the operation/control unit, to track the eccentric position.

4. (ORIGINAL) The device according to claim 1, wherein the phase angle measurement unit is a photo sensor measuring the phase angle by irradiating light to the reference point and receiving a reflection light from the disc assembly.

5-13 (CANCELLED)

14. (PREVIOUSLY PRESENTED) A disc balancing device comprising:  
a disc assembly having a driving source and at least one disc rotatably disposed at the driving source;  
a measurement unit measuring an eccentric portion of the at least one disc; and  
a laser cutter moving to cut a portion of the disc corresponding to the measured eccentric portion, while the disc is not rotating.

15. (PREVIOUSLY PRESENTED) The device according to claim 14, wherein:  
a plurality of discs is rotatably disposed at the driving source;  
the measurement unit measures an eccentric portion of the discs; and  
the laser cutter moves to cut a portion of the discs corresponding to the measured eccentric portion, while the discs are not rotating.

16. (ORIGINAL) The device according to claim 1, wherein the device balances a plurality of discs, wherein:  
the discs are rotatably disposed at the driving source; and  
the laser cutter tracks and laser-cuts side portions of the discs corresponding to the eccentric position according to the eccentric mass information from the operation/control unit, wherein the eccentric mass of the disc assembly is balanced to reduce vibration in the rotation.